

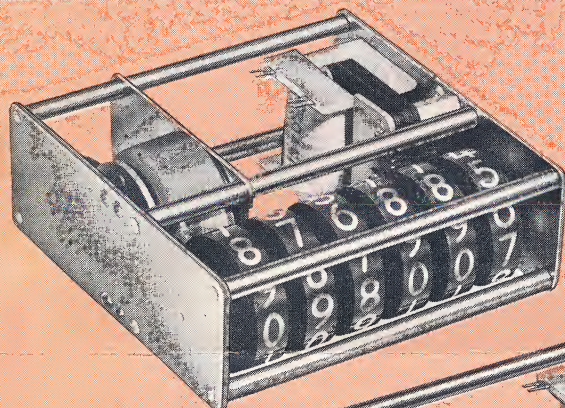


**HAYDON SWITCH & INSTRUMENT, INC.**

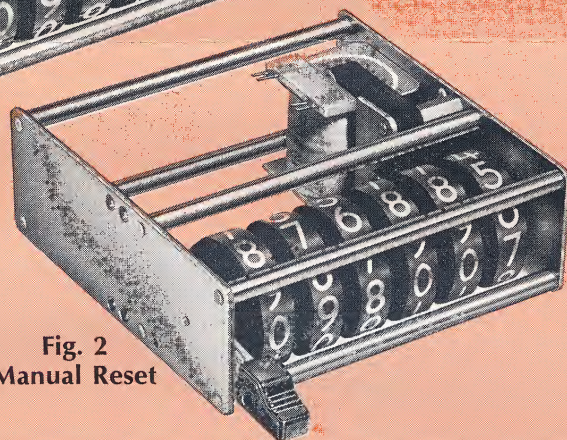
*Building Confidence Through Dependability*  
1500 MERIDEN ROAD, WATERBURY, CONN. 06720

BULLETIN  
NO. **42-2R**

JANUARY, 1965



**Fig. 1**  
Electrical reset



**Fig. 2**  
Manual Reset

# Series 42 PLANETGEAR<sup>®</sup> DIGITAL STOP CLOCK OR TIME TOTALIZER

## Performance Characteristics

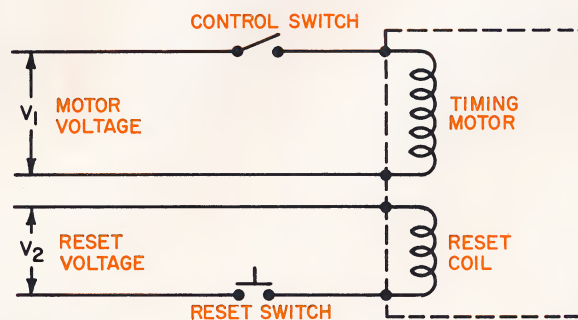
1. Timing motor voltage 115V, 60 C.P.S. or 24 V.D.C.
2. Reset coil voltage 24 V.D.C.
3. Power — timing motor  
1 watt, 115V, 60 C.P.S.  
or 4 watts, 24 V.D.C.  
— Reset coil  
20 watts (momentary)  
24 V.D.C.
4. Accuracy  $\pm 1$  digit at 60 C.P.S.  
input to timing motor.
5. Quiet operation.
6. Large numerals, 5/16 high.
7. Number of digits — 6 stand-  
ard. (Additional drums may be  
added)

Where  
Optimum Performance  
is the standard

**Haydon Switch & Instrument, Inc.** manual and electrically resettable stop clocks utilize the PLANETGEAR counter driven by HSI 38 series synchronous A.C. motors or 37 series brushless D.C. timing motors. Large numeral read out provides rapid and accurate time measurement with minimum ambiguity in reading.

**Haydon Switch & Instrument, Inc.** stop clocks reset to zero almost instantaneously by depressing reset button on the manual style (fig. 2) or by momentarily energizing the reset coil on the electrically resettable unit (fig. 1).

## SCHEMATIC WIRING DIAGRAM



**Fig. 3**





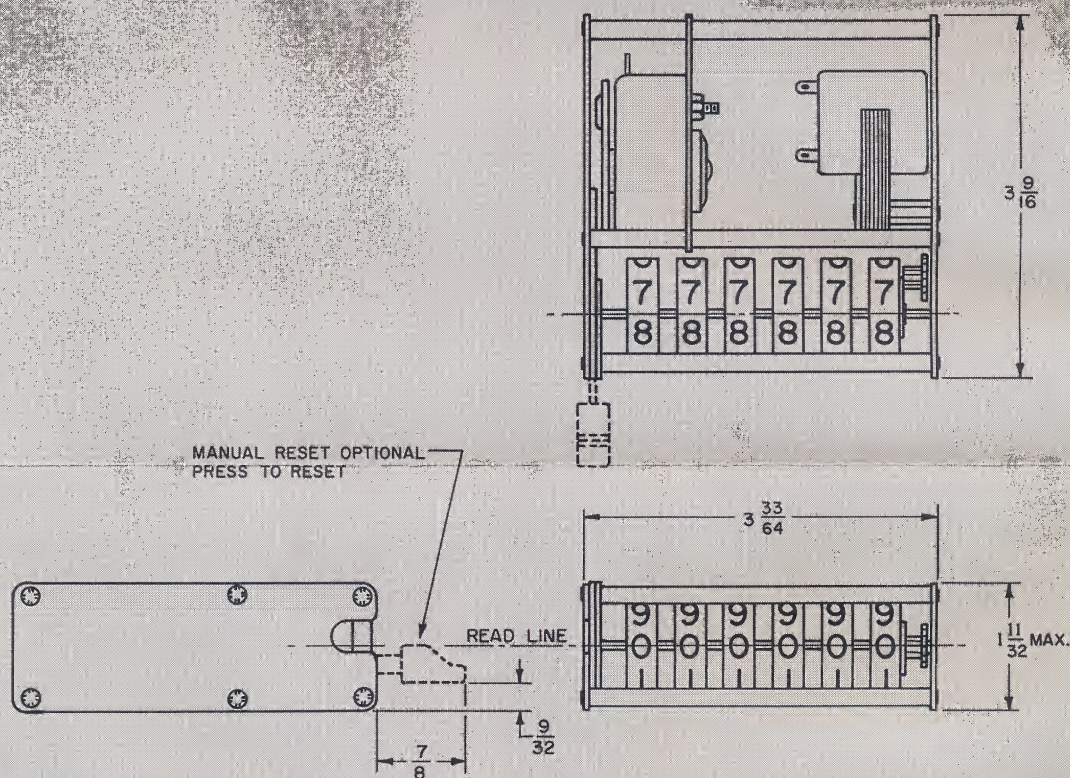
## Series 42 Resettable PLANETGEAR® Stop Clocks or Time Totalizers

Model	Timing Motor Voltage $V_1$	Time Indication	Reset Coil Voltage $V_2$
42101M Manual	115V 60 CPS	99999.9 in 1/10 seconds	
42101E Electrical	115V 60 CPS	99999.9 in 1/10 seconds	24V DC
42102M Manual	24V DC	99999.9 in 1/10 seconds	
42102E Electrical	24V DC	99999.9 in 1/10 seconds	24V DC

## Applications

Laboratory test equipment.  
 Integration of small time increments.  
 Events per unit time.  
 Process control.  
 Calibration of laboratory equipment.  
 Use may be extended to any applications  
 where precise measurement of time is a factor.

## Dimensional Data



NOTE: Information contained herein is for general reference only  
 and is subject to change without notice.



**HAYDON SWITCH & INSTRUMENT, INC.**

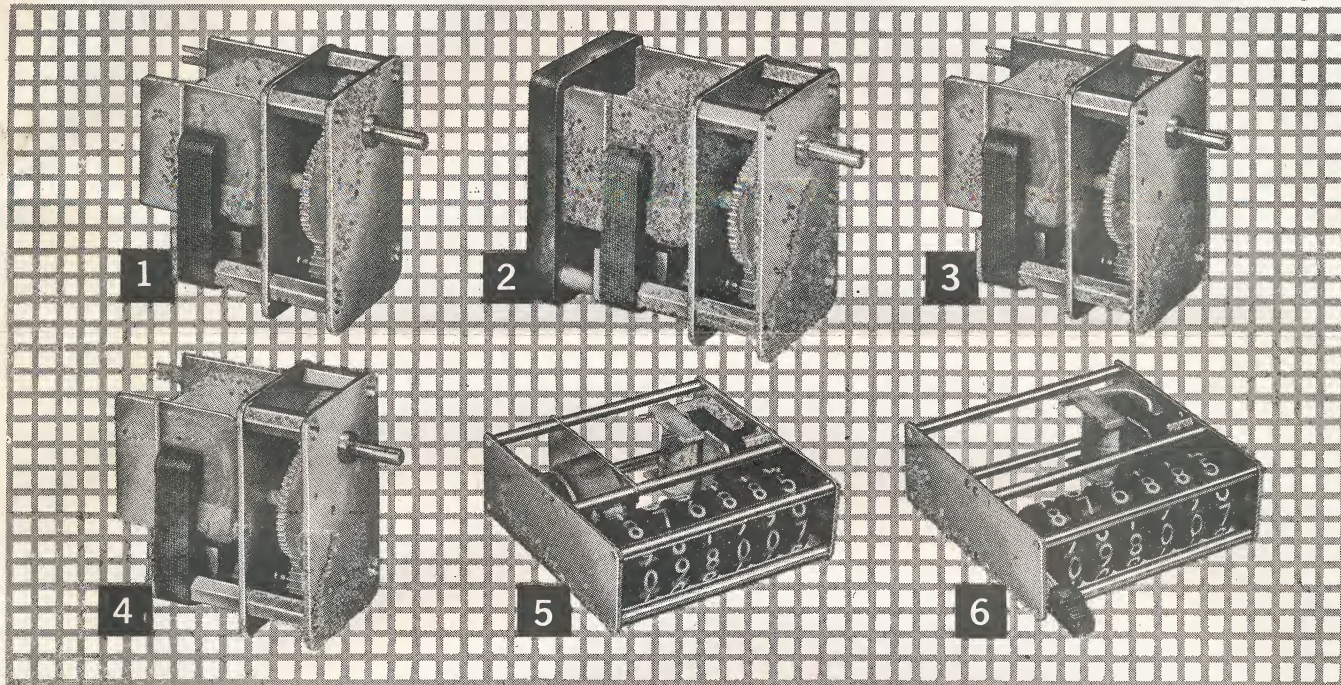
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# SIX REVOLUTIONARY PRODUCTS INDUCE A NEW DRAMATIC BREAKTHROUGH IN THE FIELDS OF ELECTRONICS AND ELECTROMECHANICS!



## ***H·S·I Announces New Inventions in Motors, Counters and Timers That Are Major Breakthroughs in The State of The Art!***

Right now you are looking at "six wonders of the modern electronic and electromechanical world!"

**NO. 1** - 2-Wire Stepper Motor    **NO. 2** - Brushless D.C. Motor    **NO. 3** - 3-Wire Stepper Motor  
**NO. 4** - A.C. Synchronous Motor    **NO. 5** - Planetgear® Pulse Counter    **NO. 6** - Planetgear® Digital Stopclock

Be honest now! In your lifetime did you imagine you would ever see these features:

Now, a 2-Wire Stepper Motor - controlled by single throw switching - simplifies your circuitry - 360° rotation per pulse.

Now, a Brushless D.C. Motor - almost any desired speed accuracy - no brushes or contacts.

Now, a 3-Wire Stepper Motor - compact size - high pulse rate - integral gear train for any step angle - 360° rotation per pulse.

Now, an A.C. Synchronous Motor - ½ watt input and 100 oz./in. at 1 RPM. Integral gear reducer.

Now, a Planetgear® Pulse Counter - quiet, resettable, stepper motor driven, offering exceptional life at high pulse rates.

Now, a Planetgear® Digital Stopclock - with larger, more easily read numerals. Manual or electrical reset. Extremely accurate.

These six fabulous products are in stock for immediate delivery to meet your basic commercial, industrial or military requirements.

But put the inventive genius of HSI engineers to the fullest test. Bring HSI your problems that seem incapable of solution. They will transfer ideas that now live only in their imaginations to their drawing boards for your eventual and profitable use. As always, HSI products are reliable and economical.

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